## THE INVENTION CLAIMED IS

1. An apparatus for delivering a predetermined amount of a fluid for biological or chemical processing and/or analysis, comprising:

a tube;

a piston plunger positioned to slide inside of said tube for dispensing said predetermined amount of a fluid for biological or chemical processing and/or analysis, said piston plunger responsive to a pneumatic force;

a connector operatively connected to said tube for transferring said predetermined amount of a fluid for biological or chemical processing and/or analysis;

an actuator operatively connected to said tube and piston plunger for providing said pneumatic force to said piston plunger; and

valving operatively connected to said actuator to said tube and piston plunger, said valving transmitting said pneumatic force from said actuator to said tube and piston plunger.

- 2. The apparatus of claim 1 including a spring that biases said piston plunger in opposition to said pneumatic force.
- 3. The apparatus of claim 1 including a multiplicity of a tubes, a multiplicity of piston plungers positioned to slide inside of said tubes, and a multiplicity of connectors operatively connected to said tubes.
- 4. A dispensing system for delivering a predetermined amount of a fluid for biological or chemical processing and/or analysis, comprising:

dispensing means for moving said predetermined amount of a fluid for biological or chemical processing and/or analysis, said dispensing means operated by a pneumatic force; connection means for delivering said predetermined amount of a fluid for biological or chemical processing and/or analysis, said connection means operatively connected to said dispensing means;

actuator means for providing said pneumatic force to said dispensing means, said actuator means operatively connected to said dispensing means; and

valving means for transmitting said pneumatic force from said actuator means to said dispensing means, said valving means operatively connected to said actuator means and said dispensing means.

- 5. The dispensing system of claim 4 wherein said dispensing means comprises a tube and a piston plunger inside of said tube that slides inside said tube and moves said predetermined amount of a fluid for biological or chemical processing and/or analysis through said connector.
- 6. The pneumatic dispensing system of claim 4 wherein said dispensing means includes a spring that biases said piston plunger in opposition to said pneumatic force.
- 7. The pneumatic dispensing system of claim 4 including a multiplicity of said dispensing means arranged in an array to delivering a multiplicity of said predetermined amounts of a fluid for biological or chemical processing and/or analysis.